



# Launch Mission Execution Forecast

**Mission:** Falcon 9 Transporter-2

**Issued:** 28 June 2021 / 0830L (1230Z)

**Valid:** 29 June 2021 / 1456 – 1554L (1856 – 1954Z)



**Forecast Discussion:** There is onshore flow across the Space Coast today, which could bring a few morning showers, but chances subside as the east coast sea breeze moves inland by early afternoon. The tropical easterly wave is nearing the coast of Georgia, bringing added moisture from North Florida to South Carolina. Tuesday should continue the favorable conditions at the Spaceport, with morning coastal showers, but afternoon convection will remain mostly inland. The primary concerns are the Cumulus and Anvil Cloud Rules associated with inland thunderstorm activity.

On Wednesday, conditions should be much the same as the ridge axis begins to move south, making Spaceport winds more southerly as well. The primary weather concerns Wednesday remain the Cumulus and Anvil Cloud Rules.

Launch Day	Probability of Violating Weather Constraints							
	20%	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	82°F / 72%	Cumulus	Scattered	3,000	10,000	Booster Recovery Weather:	Low
	Liftoff Winds (200’):	100° 15 - 20 mph	Cirrus	Scattered	25,000	27,000	Solar Activity:	Low
24-Hour Delay	Probability of Violating Weather Constraints							
	30%	Primary Concerns: Cumulus Cloud Rule, Anvil Cloud Rules						
	Weather Conditions					Additional Risk Criteria		
	Weather/Visibility:	None / 7 mi.	Type	Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Low
	Temp/Humidity:	82°F / 72%	Cumulus	Scattered	3,000	10,000	Booster Recovery Weather:	Low
	Liftoff Winds (200’):	120° 12 - 17 mph	Cirrus	Scattered	25,000	27,000	Solar Activity:	Low
<b>Note:</b> The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear, booster recovery weather, and solar activity.								
Next Forecast Will Be Issued		As required						